

1 CLAIMS

2

3 What is claimed is:

4

5 1. A protective media including:

6 a porous dielectric carrier;

7 an active agent incorporated in said porous dielectric carrier; and

8 an electrostatic charge across at least a portion of said porous dielectric carrier.

9

10 2. The protective media of claim 1 in which said porous dielectric carrier is a non-
11 woven material.

12

13 3. The protective media of claim 1 in which said porous dielectric carrier is a fiber
14 based material having a fibrous matrix structure.

15

16 4. The protective media of claim 1 in which said porous dielectric carrier is a sponge
17 like material have an open cell matrix structure.

18

19 5. The protective media of claim 2 in which said non-woven material is a three
20 dimensional structure configured to provide a matrix capable of physically
21 entrapping said active agent.

22

- 1 6. The protective media of claim 5 in which said active agent consists of particles of
2 a size suitable for entrapment by said matrix.
- 3
- 4 7. The protective media of claim 1 in which said active agent is chosen from the
5 group consisting of antimicrobials and antitoxins.
- 6
- 7 8. The protective media of claim 7 in which said porous dielectric carrier is a non-
8 woven material.
- 9
- 10 9. The protective media of claim 7 in which said porous dielectric carrier is a fiber
11 based material having a fibrous matrix structure.
- 12
- 13 10. The protective media of claim 7 in which said porous dielectric carrier is a sponge
14 like material have an open cell matrix structure.
- 15
- 16 11. The protective media of claim 8 in which said non-woven material is a three
17 dimensional structure configured to provide a matrix capable of physically
18 entrapping said active agent.
- 19
- 20 12. The protective media of claim 11 in which said active agent consists of particles
21 of a size suitable for entrapment by said matrix.
- 22

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- 1 13. The protective media of claim 1 in which said active agent is chosen from the
- 2 group consisting of metals and chemical compounds.
- 3
- 4 14. The protective media of claim 13 in which said porous dielectric carrier is a non-
- 5 woven material.
- 6
- 7 15. The protective media of claim 13 in which said porous dielectric carrier is a fiber
- 8 based material having a fibrous matrix structure.
- 9
- 10 16. The protective media of claim 13 in which said porous dielectric carrier is a
- 11 sponge like material have an open cell matrix structure.
- 12
- 13 17. The protective media of claim 14 in which said non-woven material is a three
- 14 dimensional structure configured to provide a matrix capable of physically
- 15 entrapping said active agent.
- 16
- 17 18. The protective media of claim 17 in which said active agent consists of particles
- 18 of a size suitable for entrapment by said matrix.
- 19
- 20 19. The protective media of claim 1 in which said active agent is an iodinated resin.
- 21
- 22 20. The protective media of claim 19 in which said porous dielectric carrier is a non-
- 23 woven material.

1

2 21. The protective media of claim 19 in which said porous dielectric carrier is a fiber
3 based material having a fibrous matrix structure.

4

5 22. The protective media of claim 19 in which said porous dielectric carrier is a
6 sponge like material have an open cell matrix structure.

7

8 23. The protective media of claim 20 in which said non-woven material is a three
9 dimensional structure configured to provide a matrix capable of physically
10 entrapping said active agent.

11

12 24. The protective media of claim 23 in which said active agent consists of particles
13 of a size suitable for entrapment by said matrix.

14

15 25. A protective media including:

16 a first porous dielectric carrier;

17 a first active agent incorporated in said first porous dielectric carrier;

18 an electrostatic charge across at least a portion of said first porous dielectric
19 carrier;

20 a second porous dielectric carrier;

21 a second active agent incorporated in said second porous dielectric carrier; and
22 an electrostatic charge across at least a portion of said second porous dielectric
23 carrier.

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2 26. The protective media of claim 25 in which said first active agent and said second
3 active agent are of the same material.

4

5 27. The protective media of claim 25 in which an air gap separates said first and said
6 second porous dielectric carriers.

7

8 28. The protective media of claim 27 in which said porous dielectric carrier is a non-
9 woven material.

10

11 29. The protective media of claim 27 in which said porous dielectric carrier is a fiber
12 based material having a fibrous matrix structure.

13

14 30. The protective media of claim 27 in which said porous dielectric carrier is a
15 sponge like material have an open cell matrix structure.

16

17 31. The protective media of claim 29 in which said non-woven material is a three
18 dimensional structure configured to provide a matrix capable of physically
19 entrapping said active agent.

20

21 32. The protective media of claim 31 in which said active agent consists of particles
22 of a size suitable for entrapment by said matrix.

23

- 1 33. A method of making a non-woven material including:
- 2 providing an extruder having an outlet;
- 3 providing a collecting web below the outlet of said extruder;
- 4 providing a hot melt of extrudable material;
- 5 extruding said extrudable material with said extruder to provide a flow of cooling
- 6 extruded fibers to fall toward said collecting web; and
- 7 providing a cloud of an active agent at a location adjacent said outlet of said
- 8 extruder so that said cloud envelops the cooling fibers while said fibers are still in
- 9 a quasi-liquid quasi-solid state so that said active agent settles and collects and is
- 10 intermeshed or entrapped with said fibers on the collecting web forming a media.
- 11
- 12 34. The method of making a non-woven material as defined in claim 33 also
- 13 including forming said media into a mesh.
- 14
- 15 35. The method of making a non-woven material as defined in claim 33 in which said
- 16 cloud is in a physical state selected from the group consisting of a vapor, a fine
- 17 dry dust, an atomized particulate and an aerosolized particulate.
- 18
- 19 36. The method of making a non-woven material as defined in claim 34 also
- 20 including the step of applying an electric charge across said mesh.
- 21
- 22 37. A method of making a non-woven material including;
- 23 providing an extruder having an outlet;

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1 providing a collecting web below the outlet of said extruder;
2 providing a reservoir of extrudable material;
3 extruding said extrudable material with said extruder to provide a flow of
4 extruded fibers to fall toward said collecting web; and
5 providing a cloud of an active agent at a location adjacent said flow of extruded
6 fibers so that said cloud envelops the fibers while said fibers are falling so that
7 said active agent settles and collects and is intermeshed or entrapped with said
8 fibers on the collecting web forming a media.

9

10 38. The method of making a non-woven material as defined in claim 37 also
11 including forming said media into a mesh.

12

13 39. The method of making a non-woven material as defined in claim 37 in which said
14 cloud is in a physical state selected from the group consisting of a vapor, a fine
15 dry dust, an atomized particulate and an aerosolized particulate.

16

17 40. The method of making a non-woven material as defined in claim 38 also
18 including the step of applying an electric charge across said mesh.

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